

0500

OIEP

## RAW SEQUENCE LISTING

DATE: 09/13/2000

PATENT APPLICATION: US/09/649,811

TIME: 18:20:28

Input Set : A:\471c11.app

Output Set: N:\CRF3\09132000\I649811.raw

4 <110> APPLICANT: Xu, Jiangchun  
 5 Lodes, Michael J.  
 6 Secrist, Heather  
 7 Benson, Darin R.  
 8 Meagher, Madeleine Joy  
 9 King, Gordon E.  
 12 <120> TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
 13 DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
 16 <130> FILE REFERENCE: 210121.471C11  
 C--> 18 <140> CURRENT APPLICATION NUMBER: US/09/649,811  
 19 <141> CURRENT FILING DATE: 2000-08-28  
 21 <160> NUMBER OF SEQ ID NOS: 1083  
 23 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
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 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Homo sapien  
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 31 <221> NAME/KEY: misc\_feature  
 32 <222> LOCATION: (1)...(458)  
 33 <223> OTHER INFORMATION: n = A,T,C or G  
 35 <400> SEQUENCE: 1  
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 37 gacgatgtgg ttttcagggg ggcacagaga tttggagaag cggatgaagt tctccttttag 120  
 38 ttccgaagtc agctccttgg ttctcccgta gaggggtgac ttgaagtact ccctgttttg 180  
 39 agaaactttc ttgaagaaca ccatagcatg ctggtttagt ttggtgctca ccactcggac 240  
 40 gaggtaaact gttaatccag ggtaactctt aatgttgccc agcgtgaact cgccgggctg 300  
 41 gcaacctgga acaaaagtcc tgatccagta gtcacacttc tttttcctaa acaggacgga 360  
 42 ggtgacattg tagctcttgt cttctttcag ctcacatagtg gtggcataca tcttttgagg 420  
 43 gtctttgtct tctctgagaa ttgcattccc tgccagga 458  
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 47 <212> TYPE: DNA  
 50 <213> ORGANISM: Homo sapien  
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 54 gtgttgtaga gtctataata ctccaacagt ctcccatctg tattcaatgg cgccacccaa 120  
 55 tacagtccct tgtttggatg ctggggagag taatccctac cccaagcacc ataatagataa 180  
 56 gaaaaccctc tccagttag ctgaaccaca gacggtttgc tgatgttcac cacaccacca 240  
 57 tgaccacagc tccctggagt gggaggaggg tggacgacag ggggtttttg atcttttagag 300  
 58 gcttcacact ctttcagctt ggtcttcaga gccacgattt ctcgcgcaat ggcaaggaca 360  
 59 ttgtttttgt ctagtgtctc aagcttctct accaagagag tcatatttct tatctccacc 420  
 60 tcc 423  
 62 <210> SEQ ID NO: 3  
 63 <211> LENGTH: 538  
 64 <212> TYPE: DNA  
 65 <213> ORGANISM: Homo sapien

ENTERED

 RECEIVED  
 SEP 20 2000  
 OIEP/JCWS

RAW SEQUENCE LISTING                      DATE: 09/13/2000  
 PATENT APPLICATION: US/09/649,811        TIME: 18:20:28

Input Set : A:\471c11.app  
 Output Set: N:\CRF3\09132000\I649811.raw

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70 aatgtcctct atggcccrga tgmcccccacc atttcccctc taaacacatm ttaccgwyca      180
71 ggggaaaatc tgaacctctc ctgccacgca gcctctaacc cacctgcaca gtactcttgg      240
72 ttttrcaatg ggactttcca gcaatccacm caagagctct ttatccccc aa catcactgtg      300
73 aataatagyg gatcctatac gtgccaaagg ctaactcag mcaactggcct caataggacc      360
74 acagtcacga cgatcacagt ctatgcaaga gccaccccaa cccttcacat caagcaacaa      420
75 ctccaacccc gtggaggatg aggatgctgt agccttaacc tgtgaacctg agattcagaa      480
76 cacaacctac ctgtggtggg taaataatca gagcctcccg gtcagtccca ggctgcag      538
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79 <211> LENGTH: 309
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81 <213> ORGANISM: Homo sapien
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86 aggttagaag tgaggctgtg agcaggagcc cctgccaggg gatvcacgca mtctgtgggg      180
87 aggggctgag rggdgcwycg atggtctctg ctgtctgctc tgtcctcctc tgtggagaag      240
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92 <211> LENGTH: 412
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98 tatgtatgtg gaatccagaa ctkcagttag tgcaaaccgc agtgaccagc tcaccctgga      120
99 tgctctctat gggccagaca scccccatca tttccccccc agactcgtct tacctttcgg      180
100 gagcgaacct caacctctcc tgccactcgg cctctaacc cccccgcag tattcttggc      240
101 kgtatcaatg ggataccgca gcaacacaca caagttctct ttatcgccaa aatcacgcca      300
102 aataataacg ggacctatgc ctgttttgtc tctaacttgg ctactggccc gcaataatc      360
103 catagtcaag agcatcacag tcttctgcat ctgggaacttc tctgtgtctt ct      412
105 <210> SEQ ID NO: 6
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107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapien
110 <400> SEQUENCE: 6
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112 ttsaygttkt atgagsysya saatmctgaw gctcmtyts sakgrwsttc kgsatmrgca      120
113 gtsrattcsa catttgggrt akrtymtctc tsgaagysam tgtcakgcag tgrcayccwr      180
114 gkktcwgwt gcwgtgrgtt amcakcmwtr ywtagksgsm ayatrattta ramrgtayak      240
115 cymtctcmct cytycmccay wtgcwcaass mkcacacctc ggcgcgcacc acgctaagcc      300
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118 <210> SEQ ID NO: 7
119 <211> LENGTH: 401
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapien
123 <400> SEQUENCE: 7

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124  tgggtgttgtt  ggcgccagtt  ccttgacact  ggaacagccg  tgtggagggc  cgggtctcca  60
125  agttgttagt  tcgggagggtg  cctccctggt  agaccaccat  gcgtcccttg  aagatggaca  120
126  taagatgagg  tggctccttg  cccattggga  cccggatctg  gactgggtca  ccattgtact  180
127  tctgtgccag  gatgacggct  tgataagctg  atgctgtaat  ttcattcttg  ctggcctggc  240
128  tgcctgccca  aacgtagagc  aggtaagtct  gcttctcgcc  gatgaaggta  ggtgtaagag  300
129  cagcaggtaa  gcaagttcgc  ccccatagaa  gtgggcctag  ccacttggaa  ttccagcaca  360
130  ctggcggccc  gttactagt  ggatcccgag  ctcggtacca  a  401
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135 <213> ORGANISM: Homo sapien
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138  ctctctccat  aaaactcagc  actttacaga  tgtagaatat  ataagcatgc  caaatttact  60
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140  ttggtccctc  gaggagctcc  agatattaat  ctacctaaat  aagtccccag  gtttcttcca  180
141  ggcatggaag  aattagtggg  gctacatgga  tgaggactag  tcattgggca  atatttcctg  240
142  tacaaagaat  ccctagagcg  catactgagt  ttttaagtcc  ttaattccta  atttaaggct  300
143  tctagtgaag  cctcctcaca  gtaggcttca  ctaggcccac  agtgccccta  gacctctgac  360
144  aatccccacc  tagacagact  ttattgcaaa  atgcgcctga  agaggcagat  gattcccaag  420
145  agaactcacc  aaatcaagac  aaatgtccta  gatctctagt  gtggtagaac  tatgcacct  480
146  aacattgctg  caaaatgaac  acacttttag  acacccctgc  agatatctaa  gtaagtggag  540
147  aagactattt  tttcaacaaa  cattttctct  ttcaccctaa  ctctaaaca  gcttactggg  600
148  gcttctgcaa  gacagaaaga  tcataattca  gaaggtaacc  atcgttatag  acataaagtt  660
149  tctggctcaa  aggggtatag  ttaatgctct  gcacttttct  ctgcattcta  tgcattacaa  720
150  tgtctagttt  gccctctttc  cctgtgtttg  tgcataata  gtaaaaaatc  tcttctgttc  780
151  tgggtgttca  tagtacgggt  ggcatacaga  accccacata  ccatgaaggc  gttagaagca  840
152  gatggtttat  actgcttggt  ataccaagtg  tttagcacct  gaagtgtggt  gtcattgagt  900
153  ttactaatca  ccatgttacc  agtgctgggt  tcagttgaat  aaataaccca  caatccattc  960
154  tcattccacg  caaagtcaat  atcttgccaa  gcaacattag  catatgaaaa  gcgggtatta  1020
155  taggcagcat  tagggagagt  ttgagtcaca  gcaatcgtgt  tgggtggtcag  gttaactctg  1080
156  gcaatattcc  cgggtgttga  catgttgacg  tacatgttgt  tgttgtaaac  tgctgtacca  1140
157  ctaccttggc  c  1151
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160 <211> LENGTH: 604
161 <212> TYPE: DNA
162 <213> ORGANISM: Homo sapien
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (1)...(604)
167 <223> OTHER INFORMATION: n = A,T,C or G
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172  aattccacat  ttgggatagg  tcctctctgg  aagtgaatgt  caggcagtg  catccaagtt  180
173  tctgcatgca  gtgggttaac  agccatgttt  agggggaaca  tgatttaaaa  agtacatctc  240
174  tctccctcct  ccccccacat  cacaaggctc  acatctcatt  atgggtgkcg  cccatgtcac  300
175  attaaagtgt  gatacttkgg  ttttgaaaac  attcaaacag  tctctgtgga  aatctggaga  360
W--> 176  gaaattggcg  gagagctgcc  gtggtgcatt  cctcctgtag  tgcttcaagn  taatgcttca  420
W--> 177  tcctttntta  ataacttttg  atagacaggg  gctagtgcga  cagacctctg  ggaagccctg  480

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178 gaaaacgctg atgcttgttt gaagatctca agcgcagagt ctgcaagttc atccccctctt 540
179 tcctgagggtc tgttggtggtg aggctgcaga acattggtga tgacatggac cacgccattt 600
180 gtgg 604
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183 <211> LENGTH: 473
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185 <213> ORGANISM: Homo sapien
187 <400> SEQUENCE: 10
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189 acctgctgaa caaccacatc ttgaagtcag ctatgtgtgc tgaagccatc gttgcggggc 120
190 tgtctgtgga gaccttgagg ggcacgacac tggaggtggg ctgcagcggg gacatgctca 180
191 ctatcaacgg gaaggcgatc atctccaata aagacatcct agccaccaac ggggtgatcc 240
192 actacattga tgagctactc atcccagact cagccaagac actatttgaa ttggctgcag 300
193 agtctgatgt gtccacagcc attgaccttt tcagacaagc cggcctcggc aatcatctct 360
194 ctggaagtga gcggttgacc ctccctgggt cccctgaatt ctgtattcaa agatggaacc 420
195 cctccaattg atgcccatac aaggaatttg cttcggaacc acataattaa aga 473
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198 <211> LENGTH: 411
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200 <213> ORGANISM: Homo sapien
202 <220> FEATURE:
203 <221> NAME/KEY: misc_feature
204 <222> LOCATION: (1)...(411)
205 <223> OTHER INFORMATION: n = A,T,C or G
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210 tggatgttgt tgggtatggt ggagatgacc ttatcgatga ggtgcaccac cccgttggtt 180
211 gcatgggtgt cggcttgyar carccgggca cagttcacag ttacaatccc attagatag 240
W--> 212 tgggtgatct nggatgttg aattctggtg catagnaggt gaggggtcat gcccgtgttt 300
213 cagctcatca gtcaggactc gcctgcccac catatggtaa gcsgragggc atttgagcag 360
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223 caggcaagtt gctccagagc atattgcagg acaagcctgt aacgaatagt taaattcacg 120
224 gcatctggat tcctaactct ttccgaaat ggcagggtgt agtgccgtga taaaatattc 180
225 tatgtttacc ttcaacttct tgttctggct atgtggtatc ttgatcctag cattagcaat 240
226 atgggtacga gtaagcaatg actctcaagc aatttttggg tctgaagatg taggctctag 300
227 ctccctacgtt gctgtggaca tattgattgc tgtaggtgcc atcatcatga ttctgggctt 360
228 cctgggatgc tgcggtgcta taaaagaaag tcgctgcatg cttctgttgt ttttcatagg 420
229 cttgcttctg atcctgctcc tgcagggtgg cgacaggtat cctaggagct gttttcaaat 480
230 ctaagtctga tcgcattgtg aatgaaactc tctatgaaaa cacaagcctt ttgagcgcca 540
231 caggggaaag tgaaaaacaa 560
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 150

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Input Set : A:\471c11.app  
 Output Set: N:\CRF3\09132000\I649811.raw

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240 ttgaacacat ttaagatttg agggatataa gggaaaatga tatgaatgtg tatttttact      120
241 caaaataaaa gtaactgttt acgttggtga                                     150
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245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapien
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251 ttccctcacc ccaagcctca tgttcatacc agccagtggtg ttcagcagaa cgcattgacac      180
252 cttatcacct ccctccttgg gtgagctctg aacaccagct ttggcccctc cacagtaagg      240
253 ctgctacatc aggggcaacc ctggctctat cattttcctt ttttgccaaa aggaccagta      300
254 gcatagggtg gccctgagca ctaaaaggag gggctccctga agctttccca ctatagtgtg      360
255 gagttctgtc cctgagggtg gtacagcagc cttggttctc ctg                               403
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258 <211> LENGTH: 688
259 <212> TYPE: DNA
260 <213> ORGANISM: Homo sapien
262 <220> FEATURE:
263 <221> NAME/KEY: misc_feature
264 <222> LOCATION: (1)...(688)
265 <223> OTHER INFORMATION: n = A,T,C or G
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270 caaaagcaca gaagcacatc acatacacca gcaaggtttc caactactgc actgattaac      180
271 tagatactct caatagcttt tctatagctc gtcctagaaa aaaaaattaa attttcattt      240
272 tcttacaagt tccaggctta aacaaaggca aaaattacat gcaacaactg atacactcat      300
273 aagttgcaca tatgtcccaa ggtctttatt agataacaat aaatgctagc actttgtcac      360
274 tgccatcaga ttttccttat agtcttagag tcatgtaaat aaaagttcca taatgaaatt      420
275 aaagaaaatt aatttttcta atcttagatc agttccatag aaaactatta atttttttaa      480
276 agtaggcagt agaagggggg tggtgggggg tggaattggt tagtaagtct ggttctaate      540
277 ttctgagctg cctttggaag gaagttatga ggtagaagat tctactgact ttagtaagg      600
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282 <211> LENGTH: 408
283 <212> TYPE: DNA
284 <213> ORGANISM: Homo sapien
286 <400> SEQUENCE: 16
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289 caaatgggat gtttttcagt acagttggat gtcgtcctac aagatgtggt gaatttgaaa      180
290 agaataaccc tgatctttac ttaaaggagt tgctaaatct tgctgaaaac aataaaggga      240
291 aagttgtggc aataggagaa tgcggacttg attttgacct gactgcagtt ttgtcccaaa      300

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

DATE: 09/13/2000

PATENT APPLICATION: US/09/649,811

TIME: 18:20:29

Input Set : A:\471c11.app

Output Set: N:\CRF3\09132000\I649811.raw

L:18 M:270 C: Current Application Number differs, Wrong Format

L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
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L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
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L:688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

VERIFICATION SUMMARY

DATE: 09/13/2000

PATENT APPLICATION: US/09/649,811

TIME: 18:20:29

Input Set : A:\471c11.app

Output Set: N:\CRF3\09132000\I649811.raw

L:827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50